



DATE: March 12, 1984

TO: Miles A. Zamco, Manager, FOS, DAPC

FROM: Frederick L. Smith *FLS*

SUBJECT: Sherwin Williams Company
ID# 031 600 AHO
Burning of Paracresol Waste Products in Gas Fired Boilers

John Cobb

A meeting was held on March 6, 1984, between the Agency and representatives of Sherwin Williams Company to discuss the burning of Paracresol wastes generated during the manufacture of resin. The permit requirements call for a stack test and the meeting was held to develop a tests procedure. Everyone involved wanted all questions answered before sampling begins. A list of people in attendance is attached.

It was agreed by all eventually that straight Paracresol waste be burned during the sampling. Previously, Sherwin Williams had planned to burn a mixture of Paracresol waste and number 6 diesel fuel in a 1:1 ratio. The company plans to burn just the waste in conjunction with natural gas in one of three boilers and asked to be relieved of the economic burden of using number 6 oil.

A modified Method 5 sampling train will be used. Two sorbent traps with XAD-2 will be used to collect the organic material. The material will be analysed using a GC and each trap will be analysed separately, to check for carryover. Three compounds will be sampled. They are Biphenyl, Biphenyl Methane and Paracresol. The Biphenyl and Biphenyl Methane will be calibrated against Biphenyl Methane and Paracresol will be calibrated against Paracresol.

The Method 5 train will be traversing and sampling isokinetically and the particulate matter concentration can be determined using the same train and test as when the organics are collected. The recovery reagent will be Methylene Chloride and Methanol will not be used.

CO will be measured using Method 10. The allowable is to be 50 ppm CO corrected to 7% Oxygen. Oxygen measurements by Orsat are acceptable.

Paul Purseglove will send limits or allowables for Biphenyl, Biphenyl Methane and Paracresol to Sherwin Williams shortly.

EPA Region 5 Records Ctr.



355907

DATE: March 13, 1984
TO: Bharat Mathur
FROM: Harish Desai *H. Desai*
SUBJECT: Meeting with Sherwin Williams I.D. #031600AHO

The company requested for the meeting to discuss testing methods to be used to determine emissions of cresol and bi-phenol while using p-cresol pitch as fuel. This pitch will be used during gas firing and company may use one of the three identical boilers equipped with common stock.

Combustion of p-cresol pitch can cause emissions of bi-phenol, bi-phenol methane and p-cresol which can exist as gas, liquid and solid at the stack conditions. Because of this situation it is difficult to qualify and quantify the emissions by standard testing method. Company will be using XAD-2 resin for filtering media. Carbon monoxide will be measured by method 10, TSP and total organics will be measured by modified method-5. Company will be using GC-MS method to qualify and quantify above mentioned chemicals.

The company was also advised to record all operating data during stack testing and when long term permit is issued it will be conditioned accordingly. In addition the company was advised to consider continuous monitoring of CO and total HC for consistent operation of boiler during pitch burning.

The company is going to submit a trial burn plan in about two weeks.

HBD:meg

cc: Dan Goodwin
Fred Smith
J. Reed
I.D. File ✓